

WHAT IS CLAIMED IS:

1. A method for introducing medical devices into the body through a single entry port while at all times preventing backflow of fluids through the entry port, including:

5 providing a vascular access device having a device lumen and a safety valve on the proximal end thereof;

introducing the vascular access device into the body with the distal end of the device lumen being positioned within a vasculature of the body;

attaching a detachable hemostasis valve to the safety valve to open the safety valve; and

10 inserting a device through the hemostasis valve, open safety valve and device lumen.

15 2. The method of claim 1, further including removing the device and detaching the detachable hemostasis valve from the safety valve while leaving the distal end of the device lumen positioned within the vasculature of the body.

20 3. The method of claim 1, wherein the vascular access device is a multiple lumen device, with the device lumen and an auxiliary lumen for infusing fluids, the method further including infusing fluids through the auxiliary lumen while the device is inserted in the device lumen.

4. The method of claim 1, wherein the vascular access device is a single lumen device.